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# NUMBERS & ODDITIES #
//////////////////////////////////// \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
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- - - - -
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-::: N&O #69, January 2004 :::-

Hello and welcome to the first N&O in 2004. Let's begin this issue with an interesting website. www.radiojamming.info is the website of Rimantas Pleykis and has many very nice pictures of former Soviet jammer stations.

"AlphaVax" and "MyticOne" supplied us with an extensive E10 schedules overview. You can find them in the Voice section.

Mathias Kropf's annual press release arrived just after the December dead line. We learn from his report that the total broadcasting hours of the various clandestine stations has decreased, but do the jammers know this too???

2003 Clandestine Activity Survey

The activity of political clandestine stations broadcasting on shortwave has remained almost unchanged from one year ago and is now at 1718 Weekly Broadcasting Hours (WBHs), down 14 WBHs from the previous year.

Clandestine activity to target areas on the Asian continent has increased by 8% to 1415 WBHs. On the African continent activity has dropped by 48% to 125 WBHs. Activity to America and Oceania has remained unchanged at 162 and 16 WBHs respectively.

The number of active target areas (countries) worldwide has decreased by one to 21. When compared to one year ago, Kazakhstan, Cambodia, South Korea and Somalia are no longer active, while Saudi Arabia, Lebanon and Uganda are new or reactivated target areas.

The three most active target areas worldwide are Iraq with 748 WBHs (+252 when compared with one year ago - the highest activity to a single target area since this survey was started back in

1986), North Korea with 217 WBHs (unchanged) and Afghanistan with 189 WBHs (+52).

End of press release

-0-0-0-0-0-0-0-0-0-0-

★ VOICE STATIONS ★

::: E03 / E04

The id's were as usual compiled by Al and Tomonori. Thanks gents!

Lincolnshire Poacher E03
IDs as of January 1st, 2004

UTC	Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC
1200	87328	87328	87328	87328	87328	87328	87328	1200
1300	73507	73507	73507	73507	73507	73507	73507	1300
1400	65229	87965	82515	72904	87328	87133	63142	1400
1500	63142	65229	87965	82515	72904	87328	93195	1500
1600	93195	63142	65229	87965	82515	72904	87133	1600
1700	87133	93195	63142	65229	87965	82515	87328	1700
1800	87328	87133	93195	63142	65229	87965	72904	1800
1900	72904	73507	87133	73507	63142	65229	73507	1900
2000	73507	87328	73507	93195	73507	63142	82515	2000
2100	82515	72904	87328	87133	93195	73507	87965	2100
2200	87965	82515	72904	87328	87133	93195	65229	2200

IDs as of January 15th, 2004

UTC	Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC
1200	18457	18457	18457	18457	18457	18457	18457	1200
1300	47609	47609	47609	47609	47609	47609	47609	1300
1400	40125	62862	41062	71294	18457	05282	16429	1400
1500	16429	40125	62862	41062	71294	18457	89269	1500
1600	89269	16429	40125	62862	41062	71294	05282	1600
1700	05282	89269	16429	40125	62862	41062	18457	1700
1800	18457	05282	89269	16429	40125	62862	71294	1800
1900	71294	47609	05282	47609	16429	40125	47609	1900
2000	47609	18457	47609	89269	47609	16429	41062	2000
2100	41062	71294	18457	05282	89269	47609	62862	2100
2200	62862	41062	71294	18457	05282	89269	40125	2200

Cherry Ripe E04
IDs as of Jan 2nd, 2004

UTC	Sun	Mon	Tue	Wed	Thu	Fri	UTC
-----	-----	-----	-----	-----	-----	-----	-----

0000		07066	98523	0000
0100		98523	XXXXX	0100
1000				1000
1100		68357	72822	1100
1200		72822	60511	1200
1300		60511	09663	1300
1400				1400
2200	09663	72822		2200
2300	72822	07066		2300

IDs as of Jan 9th, 2004

UTC	Sun	Mon	Tue	Wed	Thu	Fri	UTC
0000		60511	09663	XXXXX	07066	98523	0000
0100		XXXXX	72822	07066	98523	04187	0100
1000		72822	XXXXX	XXXXX	XXXXX	XXXXX	1000
1100		07066	XXXXX	XXXXX	XXXXX	72822	1100
1200		XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	1200
1300		XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	1300
1400							1400
2200	68357	XXXXX	60511	XXXXX	XXXXX		2200
2300	72822	60511	09663	72822	07066		2300

IDs as of Jan 16th, 2004

UTC	Sun	Mon	Tue	Wed	Thu	Fri	UTC
0000		60511	09663	72822	28136	60619	0000
0100		09663	72822	07066	60619	18881	0100
1000		XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	1000
1100		XXXXX	XXXXX	04187	XXXXX	20503	1100
1200		XXXXX	XXXXX	68XXX	XXXXX	XXXXX	1200
1300		XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	1300
1400							1400
2200	68357	72822	60511	44797	20503		2200
2300	72822	60511	09663	20503	28136		2300

<<<<>>>>

::: E10

Andreas Heyman reported FDUZ on 2913 kHz on 23 Dec. at 2159 UTC. Alex's logs of FDUM and FDUN on 4418 kHz on 20 Dec. were already in N&O #68.

Chris heard PCD1 at 0030 UTC on 20 January on 3150, 4270, and 6498 kHz.

A complete transcript from EZI was supplied by "Firefly" from Northern Australia.

"EZI" (repeated for two minutes)

Message Message

Group 66 Group 66

HFMM FLWQU OHNVM SDLZK LKJDD NPHTF ZWWDZ LKUKZ TXPYC UTWNT NTAIN
LHOCL ESFGI IKAXG MNXSN QMTOG MUDQI JZULA ALMDZ CXRJY AESPW ERBVE
TAFRN UCQWW WONAP RMUWO DBGMA CHFZE LVOIJ ISBNO UICZQ JEHNX LAGEI
KGEB VBZEO FQNZL UUWLM FLNRR YJQKD ZYGCN MBOLA XFCUH JJMFL CXLCG
QMKTG NBBLA ADLHY SDMMD LBMOG FLZDU NCBKK OHNML HKDAO RFPOA SKQBF
KLBIU JKYLZ JPVLG LEWBK ABNIS QTTJQ XJDFD WAHAA TLIBX XVEWW JIEM

End of Message

Repeat Repeat

Message Message

Group 66 Group 66

HFMM FLWQU OHNVM SDLZK LKJDD NPHTF ZWWDZ LKUKZ TXPYC UTWNT NTAIN
LHOCL ESFGI IKAXG MNXSN QMTOG MUDQI JZULA ALMDZ CXRJY AESPW ERBVE
TAFRN UCQWW WONAP RMUWO DBGMA CHFZE LVOIJ ISBNO UICZQ JEHNX LAGEI
KGEB VBZEO FQNZL UUWLM FLNRR YJQKD ZYGCN MBOLA XFCUH JJMFL CXLCG
QMKTG NBBLA ADLHY SDMMD LBMOG FLZDU NCBKK OHNML HKDAO RFPOA SKQBF
KLBIU JKYLZ JPVLG LEWBK ABNIS QTTJQ XJDFD WAHAA TLIBX XVEWW JIEM

End of Message

End of Transmission

Thanks guys. Also a big "THANK YOU!" to "AlphaVax" and "MyticOne" for the E10 schedules. It took a lot of time and research but they did it!! Every schedule was checked and double checked.

Note that these are the daily schedules of the stations that are always on the air. The irregular stations are not listed because they pop up every now and then and do not have a fixed schedule.

-> ALPHA ROMEO TANGO (ART)

UTC	Frequencies	UTC	Frequencies
----	-----	----	-----
0000	3415 5435	0030	3415 5437
0100	-	0130	3415 5435
0200	3415 5435	0230	-
0300	-	0330	-
0400	5435 6986	0430	5435 6986
0500	3415 5435	0530	5435 6986
0600	5435 6986	0630	5435 6986
0700	5435 6986	0730	5435 6986
0800	5435 6986	0830	5435 6986
0900	5435 6986	0930	-
1000	5435 6986	1030	-
1100	5435 6986	1130	5435 6986
1200	5435 6986	1230	5435 6986
1300	5435 6986	1330	5435 6986

1400	5435	6986	1430	5435	6986
1500	3415	5435	1530	3415	5435
1600	3415	5435	1630	3415	5435
1700	3415	5435	1730	3415	5435
1800	3415	5435	1830	3415	5435
1900	5435	6986	1930	5435	6986 1)
2000	3417	5435	2030	3415	5435
2100	3415	5435	2130	3415	5435
2200	3415	5435 2)	2230	3415	5435
2300	3415	5435	2330	3415	5435

1) 1930=0430 2) 2200=0100

-> ECHO ZULU INDIA (EZI)

UTC	Frequencies			UTC	Frequencies		
----	-----			----	-----		
0000	-			0030	-		
0100	6840	9130	11565	0130	6842	9130	11565
0200	6840	9130	11565	0230	6840	9130	11565
0300		9130	11565	0330	6840	9130	11565
0400		9130	11565	0430	9130	11565	13533
0500	11565	13533		0530	6840	9130	11565
0600	17410	19715		0630	9130	11565	
0700	9130	11565	13533	0730	11565	13533	
0800	-			0830	17410	19715	
0900	13533	17410		0930	17410	19715	
1000	11565	13533		1030	-		
1100	-			1130	11565	13533 4)	
1200	13533	15980		1230	13533	15980	17410
1300	13533	17410	19715	1330	15980	17410	
1400	19715	23740		1430	11565	13533	
1500	13533	15980		1530	17410	19715	
1600	11565	13533		1630	11565	13533	
1700	11565	13533		1730	9130	11565	13533 2)
1800	6840	9130	11565	1830	9130	11565	13533
1900	6840	9130	11565	1930	6840	9130	11565 5)
2000	9130	11565	13533 1)	2030	6840	9130	11565
2100	11565	13533		2130	6840	9130	11565 3)
2200	6840	9130	11565	2230	9130	11565	
2300	-			2330	6840	9130	11565

1) 2000=2200 2) 1730=2330 3) 2130=0130
 4) 1130=1800 5) 1930=0100

-> FOXTROT TANGO JULIET (FTJ)

UTC	Frequencies	UTC	Frequencies
----	-----	----	-----
0000	-	0030	-
0100	2626 4461	0130	-
0200	-	0230	-
0300	2626 4461	0330	2628 4463
0400	4461 7358	0430	2626 4463
0500	4461 7358	0530	4463 7358
0600	4461 7358	0630	4461 7358
0700	4461 7358	0730	4461 7358
0800	4461 7358	0830	4461 7358
0900	4461 7358	0930	-
1000	4461 7358	1030	4461 7358
1100	4461 7358	1130	-
1200	4461 7358	1230	4461 7358
1300	4461 7358	1330	4461 7358
1400	4461 7358	1430	4461 7358
1500	4461 7358	1530	2626 4461
1600	4461 7358	1630	2626 4461
1700	4461 7358	1730	2626 4461
1800	2626 4461	1830	2626 4461
1900	2626 4463	1930	2626 4461
2000	2626 4461	2030	2626 4461
2100	4461 7358	2130	2626 4461
2200	2626 4461	2230	-
2300	2626 4461	2330	2626 4461

-> JULIET SIERRA ROMEA (JSR)

UTC	Frequencies	UTC	Frequencies
----	-----	----	-----
0000	-	0030	-
0100	-	0130	-
0200	-	0230	-
0300	-	0330	2270 5091
0400	-	0430	-
0500	-	0530	-
0600	-	0630	-
0700	-	0730	-
0800	-	0830	-
0900	-	0930	-
1000	-	1030	-
1100	-	1130	-
1200	5091 7540	1230	5091 7540
1300	5091 7540	1330	5091 7540
1400	5091 7540	1430	5091 7540

1500	2270	5091	1530	5091	7540
1600	5091	7540	1630	2270	5091
1700	5091	7540	1730	2270	5091
1800	2270	5091	1830	2270	5091
1900	5091	7540	1930	2270	5091
2000	2270	5091	2030	5091	7540
2100	2270	5091	2130	2270	5091
2200	2270	5091	2230	2270	5091
2300	-		2330	-	

-> PAPA CHARLIE DELTA (PCD)

UTC	Frequencies		UTC	Frequencies		
----	-----		----	-----		
0000	3150	4270	0030	3150	4270	6498
0100	-		0130	-		
0200	-		0230	3150	4270	
0300	3150	4270	0330	4270	6498	
0400	3150	4270	0430	4270	6498	8805
0500	4270	6498	0530	4270	6498	
0600	-		0630	-		
0700	6498	8805	0730	6498	8805	
0800	6498	8805	0830	6498	8805	
0900	6498	8805	0930	6498	8805	
1000	6498	8805	1030	6498	8805	
1100	-		1130	6498	8805	
1200	-		1230	6498	8805	
1300	6498	8805	1330	6498	8805	
1400	4270	6498	1430	6498	8805	
1500	4270	6498	1530	6498	8805	
1600	4270	6498	1630	4270	6498	
1700	4270	6498 8805	1730	6498	8805	
1800	4270	6498 1)	1830	3150	4270	
1900	4270	6498	1930	3150	4270	
2000	3150	4270	2030	3150	4270	
2100	4270	6498	2130	4270	6498	
2200	3150	4270	2230	4270	6498	
2300	3150	4270	2330	3150	4270	

1) 1800=0030

-> UNIFORM LIMA XRAY (ULX)

UTC	Frequencies		UTC	Frequencies	
----	-----		----	-----	
0000	-		0030	2743	4880

0100	6270	7760	0130	-	
0200	2743	4880	0230	2743	4880
0300	-		0330	2743	4880
0400	2743	4880	0430	4880	6270
0500	4880	6270 1)	0530	6270	7760
0600	4880	6270	0630	6270	7760
0700	6270	7760	0730	6270	7760
0800	6270	7760	0830	6270	7760
0900	-		0930	6270	7760
1000	-		1030	6270	7760
1100	6270	7760	1130	-	
1200	6270	7760	1230	6270	7760
1300	6270	7760	1330	6270	7760
1400	6270	7760	1430	4880	6270 7760
1500	6270	7760	1530	6270	7760
1600	4880	6270 7760	1630	4880	6270
1700	4880	6270	1730	2743	4880
1800	2743	4880	1830	4880	6270 7760
1900	2743	4880	1930	4880	6270
2000	2743	4880	2030	4880	6270
2100	2743	4880	2130	2743	4880
2200	4880	6270	2230	2743	4880
2300	4880	6270	2330	-	

1) 0500=0600

-> YANKEE HOTEL FOXTROT (YHF)

UTC	Frequencies			UTC	Frequencies		
----	-----			----	-----		
0000	2844	3840		0030	-		
0100	-			0130	5820	7918	
0200	5820	7918	9202	0230	4560	5820	7918
0300	-			0330	3840	4560	
0400	3840	5820		0430	9202	10648	14530
0500	10648	14530		0530	5820	7918	
0600	4560	5820		0630	5820	7918	
0700	10648	14530		0730	5820	7918	
0800	-			0830	7918	10648	
0900	5820	7918		0930	5820	7918	
1000	7918	9202		1030	5820	7918	
1100	5820	7918		1130	5820	7918	
1200	9202	10648		1230	-		
1300	5820	7918		1330	5820	7918	
1400	5820	7918		1430	7918	10648	
1500	5820	7918		1530	5820	7918	
1600	7918	10648		1630	4560	5820	

1700	4560	5820	1730	3840	4560 1)
1800	5820	7918	1830	9202	10648
1900	4560	5820	1930	5820	7918
2000	4560	5820	2030	10648	14530
2100	4560	5820 2)	2130	4560	5820
2200	3840	5820	2230	3840	4560
2300	3840	4560	2330	-	

1) = 1730=0330 2) = 2100=0400

<<<<<>>>>>

::: G22

Gert and Tom both observed G22 and reported it to ENIGMA 2000. G22 was heard on 25 January at 2300 UTC on 4031 kHz.

-0-0-0-0-0-0-0-0-0-0-

★ MORSE STATIONS ★

::: MX

"L", Tirana, on 3336.2 and 4091.7 kHz.

"P", Kaliningrad, on 3167, 3699.5 and 4043 kHz.

"S", Arkhangelsk, on 5153.9 kHz.

"R", Izhevsk, on 5465.8 kHz.

"V", Khiva, on 3658 and 15064.7 kHz.

"C" seems to be faster than before and was heard on the 20, 10, 8, 7, 5, 4 and 3 MHz cluster frequencies.

Unids: "I" on 9090 and 9188.5 kHz, heard on respectively 6 and 16 January.

I received a couple of mails from Martin Potter and the Japan Ute Monitor re the new frequencies of cluster beacon "M".

"M" apparently has changed its frequencies. It has been heard on three new frequencies since 20th January. I don't know if this is a temporal change or a definitive one.

3594.4 is now 3594.8

5154.4 is now 5155.8

7039.4 is now 7038.8

Reports are most welcome!

<<<<<>>>>>

::: M16

8BY, the DGE related station can be heard on the following frequencies:
7668, 10248, 12075, 14931, 18415, 20946 kHz.

<<<<<>>>>

::: M21

PV0 is active on 5198, 5873 and 3322//4951,5 kHz with very little traffic. The id on all frequencies is "0".

M21 variant: 3301 kHz, marker PSNN, vvv and msgs. Irregular.

<<<<<>>>>

::: M22

4XZ, Israeli navy Haifa has a new QRG since 6th January. 8000 kHz is // to 8103 kHz. The rest remains unchanged.

Frequencies: 2680, 2800, 4241, 4331, 5159, 6379, 8103, 10046, 18004 and 12984 kHz. 8000 kHz is also regularly heard.

The samples of the various message types are logged between 13 and 15 January.

-> Format 1: Round-slip

vvv de 4XZ 4XZ == vvv de 4XZ 4XZ ==
vvv de 4XZ 4XZ == vvv de 4XZ 4XZ ==

-> Format 2: FM46 weather coding

nw qtc 1 nr 594 ==
nr 594 qm z cn8u 0361 41 n14m wnc ==
10001 33881 01412 =
29908 30023 32729 83006 33634 =
99932 44098 34600 34505 34206 33011 33814 33425 33331 33533
33036 33734 33630 33829 33801 34032 34237 34539 35031 =
44012 45400 23203 33004 33811 33615 33221 33129 33025 32639
22047 33740 33942 33550 =
44116 44800 33798 32921 32831 22634 41215 25412 42411 22024 =
44004 44700 44808 44409 44117 44722 44925 44434 45047 =
11291 ==
nr 594 qm z cn8u 0361 41 n14m wnc == ++

-> Format 3: Encrypted messages 5LG, subdivided with BT after 40 groups.

```

nw qtc 1 nr 554 ==
nr 554 gp v in8b 4541 31 yo4o gr 15 == yoyoy 5LGx39 ==
aa gr 04 == 5LGx11 ==
nr 554 gp v in8b 4541 31 yo4o gr 15 == yoyoy 5LGx39 ==
aa gr 04 == 5LGx11 ==
nr 554 gp v in8b 4541 31 yo4o gr 15 == ++

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-> Format4: Messages of groups of different length using
punctuation (and Hebrew morse?)

```

nw qtc 1 nr 625 ==
nr 625 vx a gu5x 0380 51 zp5x wnc == onden :hdset beqr. 1.5snet ... ==
nr 625 vx a gu5x 0380 51 zp5x wnc == onden :hdset beqr. 1.5snet ... ==
nr 625 vx a gu5x 0380 51 zp5x wnc == ++

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-> Format 5: Repeats of messages

```

nw rpt nr 654 ==
nr 654 pe v zt4o 9151 31 dz7x gr 41 == dxdxd 5LGx14 ==
nr 654 pe v zt4o 9151 31 dz7x gr 41 == dxdxd 5LGx14 == (txt rptd)
nr 654 pe v zt4o 9151 31 dz7x gr 41 == ++

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Info: Fritz Nusser

<<<<>>>>

::: M51

French station M51 is still active although it seems that the number of transmission has decreased during the past year.

The station was logged by Fritz and Jim on the following frequencies and times. Messages as usual: NR 56J 17:29:20 2004 = VPUEV KFYAC ...

Frequency	UTC	date	
-----	----	----	
3882	0720	26-1	
4440	2050	21-1	
4511.5	2000	13-1	
5153	1620	12-1	
5285	1612	6-1	//10465 kHz
5285	2035	7-1	
5301	1851	27-1	
5334.5	1655	14-1	
5406	1615	8-1	
10465	1612	6-1	

There are no transmissions on Friday, Saturday and Sunday. They apparently have long weekends.

<<<<<>>>>>

::: M62

3485 kHz, 1-1/10-1 (24/7) B3ET B3ET B3ET = RNJ5 RNJ5 RNJ5 +
3485 kHz, 11-1/20-1 (24/7) J7XD J7XD J7XD = D3QK D3QK D3QK +
3485 kHz, 21-1/31-1 (24/7) QR2U QR2U QR2U = KP6F KP6F KP6F +

1732 kHz not heard
3485 kHz has a very weak signal since 1 January.

<<<<<>>>>>

::: M82

This one comes from Igor: 4700 kHz, 1600 UTC, 7 Jan.

vvv jvg jvg jvg de bml bml bml qsa3 qsa? qtc 935 (R4)
qtc nr 935 t6 1t t1t8 t1tt 124 582 =
96421 23412 21118 1361t 21761 329t2 116t5 46968 96362 26765
abv
qtc nr 935 t6 1t t1t8 t1tt 124 582 =
96421 23412 21118 1361t 21761 329t2 116t5 46968 96362 26765
sk sk

<<<<<>>>>>

::: M89

3380.5 kHz, V BFR7 de 4XML (R15 then QRM)

<<<<<>>>>>

::: M91

4820 kHz, daily 0730-1630 UTC. Marker and usual QTCs
2362 kHz, daily 1630-0730 UTC. Marker and usual QTCs

Parallel frequencies 3996 and 1732 not copied since January 3rd.

-0-0-0-0-0-0-0-0-0-0-

* OTHER MODES *

XSL: The Japanese slot machine has been logged on a number of

frequencies: 6249.5, 6417, 6445, 8313, 8588 and 8703 kHz.

S28: Usually very strong on 4625 kHz, buzzing the night away.

S30: The pip on 3756 kHz.

XSW: The Squeaky Wheel channel marker on 3828.9 kHz is also a daily guest.

X06: The Mazielka was reported by Jochen and Pile on the following frequencies:

9197 kHz, 1600 UTC, 7-1
13506 kHz, 1300 UTC, 10-1
13517 kHz, 1407 UTC, 24-1
16025 kHz, 1448 UTC, 6-1
16117 kHz, 1443 UTC, 6-1
16117 kHz, 1400 UTC, 24-1

-0-0-0-0-0-0-0-0-0-0-

::: RUSSIAN / CIS MILITARY

Frequency Callsigns / QSX

18.1	Russian Military VLF Site Nizhny Novgorod
2478.5	GHMJ, DWJR
2839	Q8BA, JRD6, LG1U, 7WN8
3211	X8JN, WP7Y
3217	9DVZ, 8PKM, HQFD, CKQM, NKNZ, MWHO, B92Y, FOXV, V92C Q SX 3393 kHz.
3364	HNIW, TKL3
3679	AYQZ, 3MK3, INLD, KU9F
3813	6MLF
4179	REA4: AF HQ Moscow
4586	2NCM, LDBO
6220	80FH, CIPD.
12152	I700, QXX3

Samples:

ZVF ZVF ZZF ZAM ZVU ZQM ZRF ZCT K. RPT 3 K. NO NO RPT 3 ? K.

RPT AL ? K.

GHHJ ZVF ZVF ZZF ZAM ZVU ZQM ZRF ZCT K.

R ? K. C AS ? K. R K.

340 69 9 2328 340 = 991 = WauCE XQSZM ... THSCQ POPYY = 991 K.

QTC 510 32 24 2300 510 = 669 =
VWNX? COOVV ... JVBSN WRPWO = 669 = (rpts/ends AR).

<<<<<>>>>>

::: UKRAINIAN MILITARY

3348 kHz was heard // with 3863 kHz.
3775 kHz was heard // with 3348 kHz.

Freq. Callsigns

3348 BHAZ, 9T6A
3775 APFW, MW5Q, V2VR, HKMX, 6SHK, SZJK, HZ3K, KCT3, F1WX, KCT3

3863 BHAZ, FNFS, VHAY, 4YPM, 9T6A

Samples:

VHAY 149 88 16 2100 149 = 572 = AAAAA TUPSP ... XZFPu AEKZE K.

BHAZ 271 63 23 2315 271 = 495 = 11111 73464 ... 42516 23061 K.

-0-0-0-0-0-0-0-0-0-0-

* UNID STATIONS *

::: TICK

The following info was sent to us by Wolf (IARU Monitoring Service).
He says "During the last weeks I found mysterious ticking pulses on
14.000 and 21.000 spreading over +/- 12 kHz. There were 3 pulses per
second and 1 kHz space between the pulses. QTE about 100 degrees from
Germany. The pulses were in parallel on 14.000 and 21.000 MHz. Signals
were strong, S 9 + 20 dBs. The location of this signal is Iran, close
to Tehran. Testing such systems on Ham-bands is rather effective because
lots of complaints can be expected. I heard the "ticker" for the first
time on 2 January. It is possibly a new radar system from Iran."

You can found a sound sample on the N&O home page.

Thanks for the info, Wolf. Much appreciated.

<<<<<>>>>>

::: UXSF

Remember this one from last month?

"SFUX" repeated for 3 minutes on 4993 kHz.

It is actually "UXSF" that is repeated for 3 minutes daily at 1600 UTC. Fritz sends us a note in which he says "I guess other QRGs are used as well, he always tunes his equipment a few minutes before tmx starts." Hand keyed.

<<<<<>>>>>

::: VWGZ

Fritz also send us the following unid:

8634 kHz, VWGZ, 20-1, 2050 UTC

8646 kHz, VWGZ, 21-1, 2040 UTC

VWGZ ii nr bn 375/21 nr bn 375/21 ii zfg zfg
bnr 736/20 bnr 736/20 sjk sjk kan kan blo blo ii pp ii 20 1950
gr 86 gr86 = five one six nine juliet one seven three zero
6720 6984 4FG= gr 86 +

<<<<<>>>>>

::: HWK7

6998 kHz, HWK7, 16-1, 1610 UTC.

Messages like: =pontificia basilica de la santa casa -
santuario internazionale = loreto = servizi
informatifi - semino italia = de HWK7 +

Fritz writes about this oddity: "Loreto is situated near Ancona (NE Italy). It is hard to believe a religious fanatic keeps transmitting his texts for over 5 years."

It is indeed hard to believe, Fritz. However, I once received a note from an Italian radio amateur who claims that he know this guy. He uses a fake Vatican callsign and transmits indeed from NE Italy. I know that this fellow often gets on the wrong side of HAMS on 7000 kHz when he causes interference.

<<<<<>>>>>

::: PIRATE BEACONS

Chris Smolinski recently sent out a call for info about the US pirate beacons. The following was posted to Spooks and Chris' Spynumbers website at <http://www.spynumbers.com/USSWbeacon.html>

If you can supply more info, please send us a note.

Chris says: "This message was posted some time ago on one of the pirate radio mailing lists. I've listened for these beacons here in Maryland without luck, but perhaps some other folks closer to the SW USA can pick them up. I have seen reports of a mystery "C" beacon on 6925 before."

A number of people reacted to Chris' e-mail:

"Greetings from the US. A group of us here in the US Southwest have been operating pirate beacons for a few years now. They are located at remote sites in the southwestern deserts in Arizona and California. They are all solar powered with a 12V gel cell (lead-acid) battery with the exception of one that operates with a solar panel only and transmits daytime only. The typical power output is about 100 to 200mW using a CMOS crystal oscillator and a 2N2222 or similar output transistor. Here is a list of the beacons and frequencies:

8000.55 kHz: Sends Morse code letter "S"; daytime only from about 1500 to 0000 UTC. Located in western Arizona. Dipole antenna, 250 mW at mid-day.

4095 to 4096 kHz: A "cluster" of 5 beacons mostly sending either "dits" or long dashes. They operate 24 hours. One periodically sends Morse "W" between series of dits. Located in Arizona and Southern California deserts. About 150 mW each.

6700 kHz. Sends a series of "dits". Located in California. Operates 24 hours."

More reactions:

4 Jan 2004. From William in Berkeley, CA:
"At 4095.7 KHz there is a beacon that is a series of long dashes."

From "scanner_dude" in Cochise County AZ:
"4095.5 I can copy one becon for sure... a series of 2 "dit's", it's mixed in with another, weaker signal that appears to be sending just a series of dash's.... I have a good copy on the one thats doing the "dit dit"... 1756 local Az time, 0056 Zulu."

5 Jan 2004. Ben in Colorado:
'These were heard after dark in Colorado - both the dit dit

dit beacons and the one that sends W."

12 Jan 2004. From Jeff in NW Oregon:

"I also heard a cw beacon last night on 4096 at 0108 UTC.
Repeated 'w'. Reception was poor but readable at times in
my location."

From Tom in Manchester/Tullahoma, TN:

"Finally heard the "W" beacon on 4095.55 at around 0342Z 11
Jan Not a bad haul for a 150mW beacon. See recording of beacon
http://www.fernblatt.net/Recordings/4095_01_11_04_0342Z.zip
Nothing on 6700 but a carrier and nothing on 8000.55 during
the day."

13 Jan 2004. From Glenn in CO:

"4096.25 has long dashes no other ID"

18 Jan 2004

"On a somewhat related note, I've managed to hear N2UHC's
30m beacon on 10146 kHz CW. He's running 2 watts, and is in
Frontenac, KS. I'm in Westminster, MD. I caught him as soon
as I tuned in, so 100 milliwatts is certainly enough to get
halfway across the US under conditions which are not the
best. Quite a bit of UTE QRM, which sounds like PACTOR."

19 Jan 2004. From KUMD:

"I can say that 6700.4 (was 24 hrs, A1A, about 62 dashes/min.
is QRT for some reason - this beacon from s.e. CA's Colorado/
Mojave Desert boundary, went suddenly silent in mid-Nov '03
after 4 years on-air. One of the "4096 cluster" bcns about 30
miles from 6700 seems to have suffered from lack of winter
sunlight - it was strong until late Nov after a battery swap
and a charge controller addition, then faded down again to
very weak levels on 4096.09 kHz with a 4 sec. dash A1A. the
5 others are there as usual. Best bet for DX east of MS River
is "S" 8000.55 (day-only) and "W" 4095.5 (24 h with huge
signal in southwest.)"

-0-0-0-0-0-0-0-0-0-0-

* INTELLIGENCE PROFILE: LATVIA *

::: BACKGROUND

After a brief period of independence between the two World Wars, Latvia
was annexed by the USSR in 1940. It re-established its independence in
1991 following the breakup of the Soviet Union. Although the last
Russian troops left in 1994, the status of the Russian minority (some

30% of the population) remains of concern to Moscow. Latvia continues to revamp its economy for eventual integration into various Western European political and economic institutions and was invited to join NATO and the EU in 2002.

::: GENERAL

Country name: Latvijas Republika / Republic of Latvia
Short form : Latvija / Latvia
Capital : Riga

Administrative divisions:

26 rajons: Aizkraukles Rajons, Aluksnes Rajons, Balvu Rajons, Bauskas Rajons, Cesu Rajons, Daugavpils Rajons, Dobeles Rajons, Gulbenes Rajons, Jekabpils Rajons, Jelgavas Rajons, Kraslavas Rajons, Kuldigas Rajons, Liepajas Rajons, Limbazu Rajons, Ludzas Rajons, Madonas Rajons, Ogres Rajons, Preilu Rajons, Rezeknes Rajons, Rigas Rajons, Saldus Rajons, Talsu Rajons, Tukuma Rajons, Valkas Rajons, Valmieras Rajons, Ventspils Rajons and 7 municipalities: Daugavpils, Jelgava, Jurmala, Liepaja, Rezekne, Riga, Ventspils.

::: MILITARY BRANCHES

Ground Forces, Navy, Air and Air Defense Forces, Border Guard, National Guard.

::: INTELLIGENCE

- National Security Council (NSC)

The NSC was founded in 1993. The National Security Law describes what the NSC is and what its responsibilities are.

Note:

The complete text of the National Security Law can be found on the website of the Ministry of Defense at:
<http://www.mod.gov.lv/index.php?pid=12347>

National Security Law; Section 19.
Composition of the National Security Council.

- 1) Members of the National Security Council shall be the following:
 - 1) the President;
 - 2) the chairperson of the Saeima (= the Parliament);
 - 3) the chairperson of the National Security Committee of the Saeima;
 - 4) the chairperson of the Defence and Interior Affairs Committee of the Saeima;
 - 5) the Prime Minister;

- 6) the Minister for Defence;
 - 7) the Minister for Foreign Affairs;
 - 8) the Minister for the Interior; and
 - 9) the Director of the Constitution Protection Bureau.
- 2) The Prosecutor General has the right to participate in the meetings of the National Security Council.
 - 3) The activity of the National Security Council and its secretariat shall be ensured by the State President Chancellery.

Section 20. Competence of the National Security Council

- 1) The National Security Council shall:
 - 1) co-ordinate a joint State policy in the area of national security, implemented by the higher State institutions and officials, and examine the course of improvement and problems of such; and
 - 2) examine plans and concepts related to national security, as prescribed by law.
- 2) The National Security Council shall submit proposals to the Saeima regarding appointment to and release from office of the Director of the Constitution Protection Bureau.
- 3) A decision of the National Security Council, except in the case referred to in Paragraph two of this Section, shall have a recommending character and shall not release the responsible officials from responsibility for the decisions they have taken.

- Satversmes Aizsardzibas Biroja (SAB)
Bureau for the Protection of the Constitution

The SAB reports to the office of the President and is responsible for national security affairs and coordinates state intelligence activities and investigations. SAB's director is appointed by the National Security Council.

- Military Intelligence (J2)

This organisation is responsible for military intelligence collection and counter-intelligence. Unconfirmed info mention a special task force (SUV) under the Commander of the National Armed Forces.

- Drošības Policija (DP)
Security Police

DP operates under the responsibility of the Ministry of Interior and is responsible for national security, including counter-intelligence.

- Valsts Policija (VP)
State Police

Like the DP, VP also operates under the MoI and its tasks include criminal investigations and law enforcement.

<<<<>>>>

::: Websites, books, articles

Ministry of Defense

<http://www.mod.gov.lv>

Ministry of Interior

<http://www.iem.gov.lv>

National Armed Forces

<http://www.nafhq.mil.lv>

Brassey's International Intelligence Yearbook 2003

CIA World Factbook

-0-0-0-0-0-0-0-0-0-0-

* LOGS SECTION *

2680	M22	4XZ. Israeli navy Haifa. VVV marker CW 6-1-2004 Tue 2148 (AB)
2800	M22	4XZ. Israeli navy Haifa. VVV marker CW 6-1-2004 Tue 2148 (AB)
3025.0	M08a	ID 57522 90963 85651 (AR=OE, BT=K) CW 8-1-2004 Thu 1000 (MS)
3025.0	M08a	ID 16923 40911 98494 CW 31-1-2004 Sat 1000 (MS)
3150	E10	PCD1 AM 20-1-2004 0030 (CA2)
3150.0	E10	vry weak but readable USB 10-1-2004 Sat 0405 (TN)
3150.0	E10	E10, fair/readable on receiver in Sweden, calling PCD2, null message USB 19-1-2004 Mon 2300 (CA2)
3150.0	E10	E10, fair/readable on receiver in Sweden, into 26 grp msg USB 20-1-2004 Tue 0000 (CA2)
3150.0	E10	E10, fair/readable on receiver in Sweden, calling PCD1 AM 21-1-2004 Wed 0030 (CA2)
3243	M13B	438:0 CW 10-1-2004 Sat 2200 (HFD)
3244.0	M08a	ID 54913 26333 38815 CW 31-1-2004 Sat 1000 (MS)
3245.0	V02a	tuned in in progress AM 12-1-2004 Mon 0530 (NR)
3245.0	V02a	i/p AM 12-1-2004 Mon 0540 (BM)
3245.0	V02a	YL/SS, 1x1 USB 19-1-2004 Mon 0530 (GS)
3292.0	V02a	V2a, strong/readable, ID is 19912 26381 78852 USB 6-1-2004 Tue 0200 (CA2)
3292.0	V02a	YL/SS, Clear USB 6-1-2004 Tue 0400 (GS)

3292.0 V02a muffled, noisy strong sig AM 10-1-2004 Sat 0409 (TN)
3292.0 V02a V2a, weak/readable, i/p USB 31-1-2004 Sat 0400 (CA2)
3336.2 MX Channel marker "L" CW 6-1-2004 Tue 2138 (AB)
3336.2 MX Channel marker "L" + message CW 9-1-2004 Fri 2100 (AB)
3353.0 T T T 478 478, rest 5lg unreadable. ended 0515 CW
10-1-2004 Sat 0505 (TN)
3389.0 V02a i/p; M8a in bg. AM 20-1-2004 Tue 0102 (BM)
3415.0 E10 E10, fair/readable on receiver in Sweden, calling
ART2, null message USB 19-1-2004 Mon 2230 (CA2)
3495 MX Cluster beacon "C". Faster than normal CW 9-1-2004 Fri
2157 (AB)
3594.8 MX "M" on a new frequency CW 25-1-2004 (JUM)
3640.0 E10 E10, fair/readable on receiver in Sweden, calling
SYN2, null message USB 19-1-2004 Mon 2245 (CA2)
3756 S30 The pip CW 6-1-2004 Tue 2140 (AB)
3756.0 S30 S30, fair/readable on receiver in Sweden, Pipping away
CW 19-1-2004 Mon 2256 (CA2)
3757.0 XP Sync DSB-s7 AM 25-1-2004 Sun 0001 (NOD)
3828.9 XSW Squeaky Wheel channel marker 5-1-2004 Mon 2201 (AB)
3828.9 XSW XSW, fair/readable on receiver in Sweden, strutting its
stuff USB 19-1-2004 Mon 2256 (CA2)
3828.9 XSW weak USB 25-1-2004 Sun 0001 (NOD)
3840.0 E10 E10, fair/readable on receiver in Sweden, into message
USB 19-1-2004 Mon 2230 (CA2)
3840.0 E10 E10, fair/readable on receiver in Sweden, calling
YHF2, null message USB 19-1-2004 Mon 2300 (CA2)
3840.0 E10 E10, fair/readable on receiver in Sweden, into message
USB 20-1-2004 Tue 0000 (CA2)
3926.0 M08a ID 54635 15345 73995 CW 25-1-2004 Sun 1000 (MS)
3926.0 M08a ID 54635 15345 73995 (stops in msg at 1105z and moves
to his correct freq of 4173 CW 25-1-2004 Sun 1100 (MS)
4017.0 V02a V2a, strong/readable, into message USB 6-1-2004 Tue
0300 (CA2)
4017.0 V02a V2a, fair/readable, into message USB 27-1-2004 Tue
0300 (CA2)
4026 M08a cut numbers CW 20-1-2004 0304 (RP3)
4027 V02 5FGs AM 30-1-2004 0528 (RP3)
4027.0 M08a M8a, strong/readable, into message USB 6-1-2004 Tue
0300 (CA2)
4027.0 M08a (in progress) ----- 47093 32921 (AR=OE, BT=K) CW
6-1-2004 Tue 0300 (MS)
4027.0 M08a ID 24562 84751 43442 CW 10-1-2004 Sat 1100 (MS)
4027.0 M08a i/p CW 20-1-2004 Tue 0329 (BM)
4027.0 M08a ID 54913 26333 38815 (rpt of 1000z on 3244m) CW
31-1-2004 Sat 1100 (MS)
4028.0 M08a M8a, weak/mostly unreadable sigs, covered by V2a, into
message USB 3-1-2004 Sat 0300 (CA2)
4028.0 V02a V2a, weak/readable, into message USB 2-1-2004 Fri 0100

(CA2)

4028.0	V02a	YL/SS, Clear USB 2-1-2004 Fri 0500 (GS)
4028.0	V02a	V2a, Strong/readable, ID is 31313 31341 91552 USB 2-1-2004 Fri 0500 (CA2)
4028.0	V02a	(missed callups) USB 3-1-2004 Sat 0300 (MS)
4028.0	V02a	V2a, strong/readable sigs, into message USB 3-1-2004 Sat 0300 (CA2)
4028.0	V02a	V2a, strong/readable, ID is 26382 78853 92511 USB 9-1-2004 Fri 0100 (CA2)
4028.0	V02a	i/p; fast uno, seis. hard to copy due to irregular spacing. AM 10-1-2004 Sat 0207 (BM)
4028.0	V02a	Weak and mostly unreadable. Disregard entry for same date and time on 4128. AM 15-1-2004 Thu 0600 (JK)
4028.0	V02a	Weak signal. Call-up 33003, 31045, 25524. Finale x 3. Numbers poorly spaced. AM 16-1-2004 Fri 0500 (JK)
4028.0	V02a	V2a, fair/readable, into message USB 23-1-2004 Fri 0100 (CA2)
4028.0	V02a	V2a, fair/readable, i/p, overmodulated USB 27-1-2004 Tue 0200 (CA2)
4028.0	V02a	V2a, fair/readable, ID is 60164 09816 56324, fast uno USB 30-1-2004 Fri 0100 (CA2)
4028.0	V02a	V2a, strong/readable, ID is 11471 34103 30672, fast uno USB 31-1-2004 Sat 0300 (CA2)
4034.0	V02a	V2a, strong/readable, into message USB 21-1-2004 Wed 1200 (CA2)
4035.0	V02a	V2a, fair/readable, into message USB 28-1-2004 Wed 1200 (CA2)
4091.8	MX	Channel marker "L" CW 7-1-2004 0715 (WP3)
4095.6		SWUSA Pirate SLCWBeacon!! "W" CW 11-1-2004 Sun 0340 (TN)
4128.0	V02a	Weak and mostly unreadable at my location. AM 15-1-2004 Thu 0600 (JK)
4165.0	E10	E10, fair/readable on receiver in Sweden, calling SYN2, null message USB 19-1-2004 Mon 2245 (CA2)
4173.0	M08a	ID 33153 86733 90962 CW 7-1-2004 Wed 1100 (MS)
4173.0	M08a	Hummy, noisy CW 21-1-2004 Wed 1104 (TN)
4173.0	M08a	(Continues in msg from 3926m at 1105z. Rpt of 1000z on 3926m sked. CW 25-1-2004 Sun 1105 (MS)
4174.0	V02	slight "ghost" like tape not erased from last time used AM 12-1-2004 Mon 0320 (TN)
4174.0	V02a	YL/SS, W but R USB 5-1-2004 Mon 0300 (GS)
4174.0	V02a	i/p AM 12-1-2004 Mon 0308 (BM)
4174.0	V02a	V2a, strong/readable, into message AM 19-1-2004 Mon 0300 (CA2)
4174.0	V02a	V2a, weak/mostly unreadable, undermodulated, into message USB 26-1-2004 Mon 0300 (CA2)
4181	M03	287/00 CW 12-1-2004 Mon 1630 (HFD)
4241	M22	4XZ. Israeli navy Haifa. VVV marker CW 6-1-2004 Tue

2148 (AB)

4241.0 M22 VVV 4XZ, then list CW 12-1-2004 Mon 0325 (TN)

4270 E10 PCD1 AM 20-1-2004 0030 (CA2)

4270.0 E10 E10, fair/readable on receiver in Sweden, into message
USB 19-1-2004 Mon 2230 (CA2)

4270.0 E10 PCD2 USB 19-1-2004 Mon 2300 (JS3)

4329.0 V02a V2a, weak/readable, into message USB 28-1-2004 Wed
0400 (CA2)

4331 M22 4XZ CW 3-1-2004 0016 (SK2)

4331 M22 4XZ. Israeli navy Haifa. VVV marker CW 6-1-2004 Tue
2148 (AB)

4331.0 M22 VVV marker CW 10-1-2004 Sat 0444 (TN)

4461.0 E10 E10, weak/mostly unreadable sigs, calling EZI USB
4-1-2004 Sun 0300 (CA2)

4461.0 E10 FTJ in tfc, 2 msgs, 2nd msg: 89 LKCCH AM 17-1-2004 Sat
1800 (JS3)

4461.0 E10 E10, fair/readable on receiver in Sweden, into message
USB 19-1-2004 Mon 2200 (CA2)

4461.0 E10 E10, fair/readable on receiver in Sweden, calling
FTJ2, null message USB 19-1-2004 Mon 2300 (CA2)

4461.0 E10 E10, fair/readable on receiver in Sweden, calling FTJ,
then into 95 grp msg USB 19-1-2004 Mon 2330 (CA2)

4461.0 E10 E10, fair/readable on receiver in Sweden, into 48 grp
msg USB 20-1-2004 Tue 0100 (CA2)

4461.0 E10 E10, fair/readable on receiver in Sweden, calling
FTJ2, null message AM 21-1-2004 Wed 0100 (CA2)

4461.0 E10 DHRFW FTJ 31-1-2004 Sat 0100 (GG)

4477.0 M08a off at 1136z CW 15-1-2004 Thu 1130 (TN)

4478.0 M08a ID 57522 90963 85651 (AR=OE, BT=K) CW 8-1-2004 Thu
1100 (MS)

4478.0 M08a ID 16923 40911 98494 (rpt of 1000z on 3025m) CW
31-1-2004 Sat 1100 (MS)

4478.8 V02a YL/SS, Clear USB 2-1-2004 Fri 0400 (GS)

4479.0 V02a V2a, strong/readable S7, ID is 61613 31314 ????? USB
2-1-2004 Fri 0400 (CA2)

4479.0 V02a Weak signal. Missed call-up. Finale x 3. AM
16-1-2004 Fri 0400 (JK)

4479.0 V02a V2a, strong/readable, into message, 2 V2a xmsns on the
same frequency USB 21-1-2004 Wed 0300 (CA2)

4479.0 V02a V2a, fair/readable, ID is 25113 80204 31513 USB
28-1-2004 Wed 0300 (CA2)

4558 MX Cluster beacon "C". Faster than normal CW 9-1-2004 Fri
2157 (AB)

4560.0 E10 mixing with a MX "C" beacon AM 1-1-2004 Thu 0000 (NOD)

4560.0 E10 E10, fair/readable on receiver in Sweden, into message
USB 19-1-2004 Mon 2230 (CA2)

4580 G06 308-456/132=41282 AM 5-1-2004 Mon 2000 (HFD)

4584 G06 308-456/132=41282 AM 6-1-2004 Tue 2000 (HFD)

4584.0 G06 "308 456 132..." USB 6-1-2004 Tue 2000 (AF)
4593 XP msg AM 1-1-2004 Thu 2140 (HFD)
4593 XP msg AM 15-1-2004 Thu 2140 (HFD)
4625 S28 The buzzer 6-1-2004 Tue 2100 (AB)
4648.0 E10 E10, fair/readable on receiver in Sweden, calling KPA2, null message USB 19-1-2004 Mon 2315 (CA2)
4648.0 E10 E10, fair/readable on receiver in Sweden, calling MIW2, null message USB 20-1-2004 Tue 0015 (CA2)
4648.0 E10 E10, fair/readable on receiver in Sweden, calling KPA2, null message AM 21-1-2004 Wed 0115 (CA2)
4700 M82 BML CW 7-1-2004 1600 (IB)
4792 G06 271-980/ 50=01036 AM 10-1-2004 Sat 1930 (HFD)
4836.0 E06 "312 968 50 35866..." USB 1-1-2004 Thu 2030 (AF)
4880 E10 ULX AM 9-1-2004 2031 (ML4)
4880.0 E10 E10, very weak/mostly unreadable into message USB 4-1-2004 Sun 0030 (CA2)
4880.0 E10 ULX2 - very weak USB 20-1-2004 Tue 2130 (JS3)
4880.0 E10 ULX 111 DSAEQ USB 21-1-2004 Wed 2000 (JS3)
4951.5 M21 Russian Air Defense. Id "0" CW 6-1-2004 Tue 2136 (AB)
4951.5 M21 PVO CW 10-1-2004 (FN)
5062 M13 261 CW 5-1-2004 Mon 2000 (HFD)
5062 M13 261 CW 5-1-2004 Mon 2100 (HFD)
5085 E07 980:1-4558/104= 02873 AM 21-1-2004 Wed 1840 (HFD)
5091.0 E10 JSR2 USB 3-1-2004 Sat 2230 (GG)
5091.0 E10 E10, very weak/mostly unheard, into message USB 4-1-2004 Sun 2200 (CA2)
5091.0 E10 E10, very weak/mostly unheard, into message USB 4-1-2004 Sun 2230 (CA2)
5091.0 E10 E10, weak/mostly unreadable, into message, JSR? USB 5-1-2004 Mon 2230 (CA2)
5153 M51 NR56 J 17:29:20 2004 = VPUEV KFAYC CW 12-1-2004 1629 (RGA)
5154 MX Cluster beacon "C". Faster than normal CW 9-1-2004 Fri 2157 (AB)
5155.8 MX "M" on a new frequency CW 25-1-2004 (JUM)
5159 M22 4XZ. Israeli navy Haifa. VVV marker CW 6-1-2004 Tue 2148 (AB)
5159.0 M22 4XZ good sig, but much fading CW 10-1-2004 Sat 0420
5170.0 E10 E10, fair/readable on receiver in Sweden, calling CI02, null message USB 19-1-2004 Mon 2245 (CA2)
5198 M21 PVO CW 10-1-2004 (FN)
5198 M21 Russian Air Defense CW 27-1-2004 1847 (PP)
5230.0 E10 "Charlie India Oscar Two" AM 10-1-2004 Sat 0447 (TN)
5230.0 E10 CI02 USB 19-1-2004 Mon 2245 (JS3)
5301 M51 NR39 J 27 19:51 CW 27-1-2004 1851 (PP)
5301.0 M10 555x3 919x3 38 321x3 42 (R5) CW 5-1-2004 Mon 2200 (MS)
5339 E10 MIW2 AM 7-1-2004 Wed 2015 (AB)
5339 E10 MIW2 AM 9-1-2004 Fri 2210 (AB)

5377.0 M13 757 (R5) BT 257 20 BT CW 7-1-2004 Wed 2245 (MS)
5417.0 V02a YL/SS USB 2-1-2004 Fri 0211 (GS)
5417.0 V02a V2a, strong/readable, into message USB 9-1-2004 Fri 0200 (CA2)
5417.0 V02a V2a, weak/readable, into message USB 23-1-2004 Fri 0200 (CA2)
5417.0 V02a V2a, weak/fairly readable, i/p USB 30-1-2004 Fri 0200
5422.0 E10 E10, weak/readable sigs, into message USB 4-1-2004 Sun 2200 (CA2)
5435 E10 ip AM 9-1-2004 2102 (ML4)
5435.0 E10 ART2 USB 2-1-2004 Fri 0000 (GG)
5435.0 E10 ART2 USB 3-1-2004 Sat 2230 (GG)
5435.0 E10 E10, weak/readable sigs, calling ART2, null message USB 4-1-2004 Sun 0130 (CA2)
5435.0 E10 E10, fair/readable sigs, calling ART, 89 grp msg USB 4-1-2004 Sun 0200 (CA2)
5435.0 E10 E10, weak/mostly readable, calling ART USB 4-1-2004 Sun 0430 (CA2)
5435.0 E10 E10, very weak/mostly unreadable, into message USB 4-1-2004 Sun 2200 (CA2)
5435.0 E10 E10, weak/mostly readable, calling ART2, null message USB 4-1-2004 Sun 2230 (CA2)
5435.0 E10 E10, very weak/mostly unreadable, to weak to ID, EZI? USB 5-1-2004 Mon 2200 (CA2)
5435.0 E10 E10, weak/mostly readable, calling ART2, null message USB 5-1-2004 Mon 2230 (CA2)
5435.0 E10 E10, weak/mostly unreadable, into message, ULX? USB 5-1-2004 Mon 2300 (CA2)
5435.0 E10 E10, weak/readable, calling ART2, null message USB 5-1-2004 Mon 2330 (CA2)
5435.0 E10 occassional pactor QRM USB 12-1-2004 Mon 0206 (TN)
5435.0 E10 ART 2starts at 21:00 every evening for the last week, USB 14-1-2004 Wed 2355 (JG)
5435.0 E10 E10, fair/readable on receiver in Sweden, into message of 20 grps USB 19-1-2004 Mon 2200 (CA2)
5435.0 E10 E10, fair/readable on receiver in Sweden, calling ART2, null message USB 19-1-2004 Mon 2230 (CA2)
5435.0 E10 E10, fair/readable on receiver in Sweden, calling ART, 2 msgs USB 19-1-2004 Mon 2300 (CA2)
5435.0 E10 E10, fair/readable on receiver in Sweden, calling ART2, null message USB 20-1-2004 Tue 0000 (CA2)
5435.0 E10 E10, fair/readable on receiver in Sweden, into message USB 20-1-2004 Tue 0200 (CA2)
5437.0 E10 ART 89 MLHIU USB 1-1-2004 Thu 0030 (GG)
5437.0 E10 ART 89 MLHIU USB 2-1-2004 Fri 0030 (GG)
5437.0 E10 too weak to copy USB 4-1-2004 Sun 0030 (GG)
5437.0 E10 E10, weak/mostly unreadable, into message USB 4-1-2004 Sun 0030 (CA2)

5437.0 E10 ART too weak to copy USB 10-1-2004 Sat 0030 (GG)
5437.0 E10 too weak to copy USB 12-1-2004 Mon 0030 (GG)
5437.0 E10 ART2 USB 13-1-2004 Tue 0030 (GG)
5437.0 E10 ART 60 SGNZI USB 14-1-2004 Wed 0030 (GG)
5437.0 E10 ART 2 msgs : 41 XNNTQ/63 CPNPO USB 15-1-2004 Thu 0030 (GG)
5437.0 E10 ART 2 msgs : 41 XNNTQ/63 CPNPO USB 17-1-2004 Sat 0030 (GG)
5437.0 E10 ART 2 msgs : 41 ?????/?? ????? USB 18-1-2004 Sun 0030 (GG)
5437.0 E10 ART too weak to copy USB 22-1-2004 Thu 0030 (GG)
5437.0 E10 ART 2 msgs : 41 XNNTQ/63 CPNPO USB 23-1-2004 Fri 0030 (GG)
5437.0 E10 ART 48 SEYIA USB 25-1-2004 Sun 0030 (GG)
5437.0 E10 ART2 USB 26-1-2004 Mon 0030 (GG)
5437.0 E10 ART 24 XZZSM USB 27-1-2004 Tue 0030 (GG)
5437.0 E10 ART 24 EZZSM USB 29-1-2004 Thu 0030 (GG)
5437.0 E10 ART 24 EZZSM USB 30-1-2004 Fri 0030 (GG)
5437.0 E10 ART 24 EZZSM USB 31-1-2004 Sat 0030 (GG)
5440 E06 690:0 AM 4-1-2004 Sun 1930 (HFD)
5465.8 MX Channel marker "R" CW 7-1-2004 Wed 1959 (AB)
5625 S06 624:0 AM 6-1-2004 Tue 1800 (HFD)
5625 S06 624:0 AM 13-1-2004 Tue 1800 (HFD)
5737 XP msg AM 15-1-2004 Thu 2120 (HFD)
5737 XP msg AM 27-1-2004 Tue 2120 (HFD)
5746 E03 LP. Id 87133 USB 9-1-2004 Fri 2208 (AB)
5762.0 V02a YL/SS USB 3-1-2004 Sat 0430 (GS)
5762.0 V02a AM 10-1-2004 Sat 0430 (TN)
5762.0 V02a V2a, strong/readable, ID is 44075 40521 55262 USB
31-1-2004 Sat 0400 (CA2)
5771.0 V02 V2, really AM 10-1-2004 Sat 1535 (TN)
5778.0 M13 272 (R5) BT 276 21 BT CW 6-1-2004 Tue 2200 (MS)
5780.0 G06 "308 456 132..." USB 6-1-2004 Tue 1900 (AF)
5810 M01 197 CW 31-1-2004 Sat 1500 (HFD)
5820.0 E10 E10, weak/readable, calling YHF USB 5-1-2004 Mon 0130
(CA2)
5820.0 E10 YHF 43 NKSOC AM 17-1-2004 Sat 1800 (JS3)
5820.0 E10 YHF 43 NKSOC (same as yesterday) - in background EAM
in USB AM 18-1-2004 Sun 1800 (JS3)
5864.0 M13 254 (R5) BT 242 21 BT CW 8-1-2004 Thu 2200 (MS)
5883.0 V02a YL/SS USB 3-1-2004 Sat 0500 (GS)
6249.5 XSL slot machine, strong sig USB 21-1-2004 Wed 1028 (TN)
6250.0 XSL XSL, fair/readable S8, idling USB 21-1-2004 Wed 1300
6270.0 E10 E10, weak/mostly readable, into message USB 4-1-2004
Sun 0100 (CA2)
6270.0 E10 E10, weak/mostly readable, into message USB 5-1-2004
Mon 0100 (CA2)
6270.0 E10 ULX USB 9-1-2004 Fri 0100 (GG)
6270.0 E10 E10, fair/readable on receiver in Sweden, into 64 grp
msg AM 21-1-2004 Wed 0100 (CA2)
6378 M13 261 CW 4-1-2004 Sun 2100 (HFD)
6378.0 M08a 261 (R5) BT 276 22 BT CW 18-1-2004 Sun 2100 (MS)

6378.0 M13 261 (R5) BT 276 22 BT CW 4-1-2004 Sun 2100 (MS)
6378.0 M13 M13, strong/readable on receiver in Sweden, into
message USB 19-1-2004 Mon 2100 (CA2)
6379 M13 517 CW 6-1-2004 Tue 2000 (HFD)
6379 M13 517 CW 6-1-2004 Tue 2100 (HFD)
6379 M22 4XZ. Israeli navy Haifa. VVV marker CW 6-1-2004 Tue
2148 (AB)
6379.0 M22 4XZ marker CW 12-1-2004 Mon 0200 (TN)
6397.0 M13 517 (R5) BT 237 21 BT CW 6-1-2004 Tue 2100 (MS)
6417.0 XSL slot machine USB 15-1-2004 Thu 1120 (TN)
6445.0 XSL slot machine USB 11-1-2004 Sun 0850 (TN)
6445.0 XSL slot machine USB 15-1-2004 Thu 1130 (TN)
6445.0 XSL Slot machine USB 18-1-2004 Sun 1400 (JK)
6445.0 XSL slot machine, strong USB 21-1-2004 Wed 1030 (TN)
6498 E10 PCD1 AM 20-1-2004 0030 (CA2)
6498.0 E10 E10, weak/mostly unreadable, into message, PCD? USB
5-1-2004 Mon 2230 (CA2)
6498.0 E10 E10, fair/readable on receiver in Sweden, into message
USB 19-1-2004 Mon 2230 (CA2)
6574 M13 253 CW 1-1-2004 Thu 2100 (HFD)
6768.0 V02a (uncopiable, garbled signal) USB 5-1-2004 Mon 0400
6768.0 V02a YL/SS, L & C USB 5-1-2004 Mon 0500 (GS)
6797.0 M08a ID ----- 36721 14841 (AR=OE, BT=K) (This sked was a
late starter) CW 5-1-2004 Mon 1200 (MS)
6797.0 M08a ID 96102 ----- (sked came up late start) (AR=OE,
BT=K) CW 7-1-2004 Wed 1200 (MS)
6797.0 M08a ID 61332 02833 33623 CW 14-1-2004 Wed 1200 (MS)
6797.0 M08a M8a, strong/readable, into message USB 21-1-2004 Wed
1200 (CA2)
6797.0 M08a M8a, strong/readable, into message USB 28-1-2004 Wed
1200 (CA2)
6840.0 E10 in progress USB 3-1-2004 Sat 2335 (GG)
6840.0 E10 E10, weak/mostly unreadable, into message USB 5-1-2004
Mon 0130 (CA2)
6840.0 E10 E10, very weak/mostly unreadable, too weak to get ID
USB 5-1-2004 Mon 2330 (CA2)
6840.0 E10 EZI 109 FIXDF AM 17-1-2004 Sat 1800 (JS3)
6840.0 E10 EZI in tfc, 2 msgs, 1st msg: 94 ARZHD AM 18-1-2004 Sun
1800 (JS3)
6840.0 E10 E10, fair/readable on receiver in Sweden, into message
USB 19-1-2004 Mon 2200 (CA2)
6842 XP msg AM 1-1-2004 Thu 2100 (HFD)
6842 XP msg AM 6-1-2004 Tue 2100 (HFD)
6842 XP msg AM 15-1-2004 Thu 2100 (HFD)
6855.0 V02a i/p; QRM from WYFR OKEECHOBEE AM 12-1-2004 Mon 0310
(BM)
6855.0 V02a V2a, weak/readable, into message, undermodulated USB
26-1-2004 Mon 0300 (CA2)

6866.0 M08a strong sig/hum and residual carrier on up-key CW
5-1-2004 Mon 1403 (TN)
6885.0 M13 458 (R5) (Voice station blocking-unreadable) CW
26-1-2004 Mon 2300 (MS)
6912 E10 ip AM 2-1-2004 0650 (ML4)
6933.0 M08a ID 25122 98663 80273 (AR=OE, BT=K) CW 3-1-2004 Sat
1200 (MS)
6933.0 M08a ID 96101 36722 14842 (AR=OE, BT=K) CW 6-1-2004 Tue
1200 (MS)
6933.0 M08a ID 96103 52511 55771 (AR=OE, BT=K) CW 8-1-2004 Thu
1200 (MS)
6933.0 M08a ID 96612 10403 55773 CW 10-1-2004 Sat 1200 (MS)
6933.0 M08a off at 1236 CW 15-1-2004 Thu 1225 (TN)
6933.0 M08a ID 61335 18801 92061 CW 17-1-2004 Sat 1200 (MS)
6933.0 M08a ID 42143 55714 56874 CW 24-1-2004 Sat 1200 (MS)
6933.0 M08a M8a, strong/readable, into message USB 27-1-2004 Tue
1200 (CA2)
6933.0 M08a ID 42145 39091 95351 CW 27-1-2004 Tue 1200 (MS)
6933.0 M08a ID 32862 39095 95355 CW 31-1-2004 Sat 1200 (MS)
6934 E07 913:0 AM 7-1-2004 Wed 0610 (HFD)
6934 E07 913:1- 322/ 37= 41054 AM 16-1-2004 Fri 0610 (HFD)
6936 M13 915 CW 9-1-2004 Fri 1800 (HFD)
6959 E03 LP. Id 87133 USB 9-1-2004 Fri 2208 (AB)
6959 E03 LP ip USB 12-1-2004 1728 (RGA)
6959 E03 LP ip USB 31-1-2004 2245 (MJC)
6959.0 E03 E3, weak/readable sigs, ID is 8?733 USB 2-1-2004 Fri
2200 (CA2)
6959.0 E03 E3, strong/readable on receiver in Sweden, ID is 62862
USB 19-1-2004 Mon 2200 (CA2)
6964 E07 ip AM 5-1-2004 Mon 2103 (HFD)
6964 E07 981:0 AM 19-1-2004 Mon 2100 (HFD)
6968 E07 981:0 AM 14-1-2004 Wed 1800 (HFD)
6968 E07 980:1-4558/104= 02873 AM 21-1-2004 Wed 1800 (HFD)
6986 E10 ART2 AM 27-1-2004 0632 (GH3)
6986.0 E10 E10, weak/mostly readable, calling ART, 23 grp msg USB
4-1-2004 Sun 0400 (CA2)
6986.0 E10 E10, weak/mostly readable, calling ART USB 4-1-2004
Sun 0430 (CA2)
7038.8 MX "M" on a new frequency CW 20-1-2004 2150 (MP)
7038.8 MX "M" on a new frequency CW 25-1-2004 (JUM)
7039 MX Cluster beacon "C". Faster than normal CW 9-1-2004 Fri
2157 (AB)
7317.5 M08a cut numbers CW 19-1-2004 1311 (RP3)
7320.0 M08a ID 25123 36721 14841 (AR=OE, BT=K) (rpt of 1200z on
6797m) CW 5-1-2004 Mon 1300 (MS)
7320.0 M08a stuttering and has carrier on up-key/same on 7519 CW
5-1-2004 Mon 1310 (TN)
7320.0 M08a M8a, strong/readable into message USB 7-1-2004 Wed

1300 (CA2)
 7320.0 M08a ID 96102 36723 14843 (rpt of 1200z on 6797m) (AR=OE, BT=K) CW 7-1-2004 Wed 1300 (MS)
 7320.0 M08a M8a, strong/readable, ID is 24611 52511 55772 USB 9-1-2004 Fri 1300 (CA2)
 7320.0 M08a M8a, strong/readable, into message USB 12-1-2004 Mon 1300 (CA2)
 7320.0 M08a ID 61332 02833 33623 (rpt of 1200z on 6797m) CW 14-1-2004 Wed 1300 (MS)
 7320.0 M08a M8a, strong/readable, into message USB 16-1-2004 Fri 1300 (CA2)
 7320.0 M08a M8a, strong/readable, S9+10dB, ID is ????? 44600 45760 USB 21-1-2004 Wed 1300 (CA2)
 7320.0 M08a M8a, strong/readable, ID is ?2133 44614 45764 USB 26-1-2004 Mon 1300 (CA2)
 7320.0 M08a M8a, strong/readable, into message USB 28-1-2004 Wed 1300 (CA2)
 7320.0 M08a M8a, strong/readable, i/p USB 30-1-2004 Fri 1300 (CA2)
 7337.0 E03 E3, weak/readable, ID is 71294 USB 28-1-2004 Wed 2200 (CA2)
 7380 M10E 111:67628/05 74282/05 CW 14-1-2004 Wed 0800 (HFD)
 7439.0 E11 E11, fair/readable on receiver in Sweden, ID is 312, null message USB 31-1-2004 Sat 1230 (CA2)
 7440 S06 418:0 AM 13-1-2004 Tue 0810 (HFD)
 7519.0 M08a ID ----- 22933 05413 CW 5-1-2004 Mon 1300 (MS)
 7519.0 M08a ID 59421 69622 05352 CW 5-1-2004 Mon 2200 (MS)
 7519.0 M08a ID 39362 96943 97453 CW 9-1-2004 Fri 2200 (MS)
 7519.0 M08a ID 54004 21655 59575 CW 16-1-2004 Fri 2200 (MS)
 7519.0 M08a ID 54005 05301 18341 CW 19-1-2004 Mon 2200 (MS)
 7519.0 M08a (QRM blocking station. Unreadable, uncopiable.) CW 23-1-2004 Fri 2200 (MS)
 7519.0 M08a ID 78922 57913 17443 CW 26-1-2004 Mon 2200 (MS)
 7519.0 M08a M8a, fair/readable, ID is 78924 57914 17445 USB 28-1-2004 Wed 2200 (CA2)
 7526.0 M08a ID 59422 69623 05353 (AR=OE, BT=K) CW 6-1-2004 Tue 2200 (MS)
 7526.0 M08a M8a, strong/readable, ID is 78923 57194 17444 USB 27-1-2004 Tue 2200 (CA2)
 7526.0 M08a ID 78923 57914 17444 CW 27-1-2004 Tue 2200 (MS)
 7583.0 V02a (in progress) USB 5-1-2004 Mon 1000 (MS)
 7640 S06 516:0 AM 20-1-2004 Tue 1730 (HFD)
 7640 S06 ip AM 27-1-2004 Tue 1745 (HFD)
 7681.0 M08a ID ----- 34773 73943 (AR=OE, BT=K) CW 4-1-2004 Sun 0800 (MS)
 7681.0 M08a ID 97935 10733 37403 (rpt of 0700z on 8096m) CW 25-1-2004 Sun 0800 (MS)
 7760.0 E10 E10, very weak/mostly unreadable, into message USB 4-1-2004 Sun 0100 (CA2)

7760.0 E10 E10, weak/mostly unreadable, into message USB 5-1-2004
Mon 0100 (CA2)
7760.0 E10 ULX 92 ?RZIK USB 6-1-2004 Tue 0100 (GG)
7760.0 E10 ULX2 AM 17-1-2004 Sat 1530 (JS3)
7760.0 E10 ULX 92 ERZIK USB 18-1-2004 Sun 0100 (GG)
7760.0 E10 ULX 64 OHSOP USB 20-1-2004 Tue 0100 (GG)
7760.0 E10 E10, fair/readable on receiver in Sweden, into 64 grp
msg AM 21-1-2004 Wed 0100 (CA2)
7760.0 E10 ULX 64 OHSOP USB 23-1-2004 Fri 0100 (GG)
7760.0 E10 ULX2 USB 27-1-2004 Tue 0100 (GG)
7760.0 E10 ULX2 USB 29-1-2004 Thu 0100 (GG)
7760.0 E10 ULX2 USB 30-1-2004 Fri 0100 (GG)
7760.0 E10 ULX2 USB 31-1-2004 Sat 0100 (GG)
7890.0 M08a ID 25122 98663 80273 (AR=OE, BT=K) (rpt of 1200z on
6933m) CW 3-1-2004 Sat 1300 (MS)
7890.0 M08a ID 96101 36722 14842 (AR=OE, BT=K) (rpt of 1200z on
6933m) CW 6-1-2004 Tue 1300 (MS)
7890.0 M08a M8a, strong/readable, into message USB 6-1-2004 Tue
1300 (CA2)
7890.0 M08a M8a, strong/readable, ID is 96103 52511 55771, OE=K
AR=0 USB 8-1-2004 Thu 1300 (CA2)
7890.0 M08a ID 96103 52511 55771 (rpt of 1200z on 6933m) (AR=OE,
BT=K) CW 8-1-2004 Thu 1300 (MS)
7890.0 M08a ID 96612 10403 55773 (rpt of 1200z on 6933m) CW
10-1-2004 Sat 1300 (MS)
7890.0 M08a M8a, strong/readable, into message USB 13-1-2004 Tue
1300 (CA2)
7890.0 M08a ID 61335 18801 92061 (rpt of 1200z on 6933m) CW
17-1-2004 Sat 1300 (MS)
7890.0 M08a M8a, strong/readable, ID is ????? 44601 45761 USB
22-1-2004 Thu 1300 (CA2)
7890.0 M08a ID 42143 55714 56874 (rpt of 1200z on 6933m) CW
24-1-2004 Sat 1300 (MS)
7890.0 M08a M8a, strong/readable, ID is 42145 79091 15351 USB
27-1-2004 Tue 1300 (CA2)
7890.0 M08a ID 32862 39095 95355 (rpt of 1200z on 6933m) CW
31-1-2004 Sat 1300 (MS)
7918 E10 ip AM 2-1-2004 0651 (ML4)
7918.0 E10 E10, weak/readable sigs, calling YHF, 63 grp msg USB
4-1-2004 Sun 0130 (CA2)
7918.0 E10 E10, weak/readable sigs, calling YHF USB 4-1-2004 Sun
0200 (CA2)
7918.0 E10 E10, weak/readable, calling YHF USB 5-1-2004 Mon 0130
(CA2)
7918.0 E10 E10, fair/readable, calling YHF, then into 81 grp msg
USB 5-1-2004 Mon 0200 (CA2)
7918.0 E10 moderate/readable AM 10-1-2004 Sat 0434 (TN)
7918.0 E10 very weak sig USB 10-1-2004 Sat 0651 (TN)

7918.0 E10 YHF 2 Msgs: 79 JAKVD, 28 BYTTW AM 17-1-2004 Sat 1600 (JS3)
8009.0 M08a ID 59421 69622 05352 (rpt of 2200z on 7519m) CW 5-1-2004 Mon 2300 (MS)
8009.0 M08a ID 59423 96941 96051 (AR=OE, BT=K) CW 7-1-2004 Wed 2300 (MS)
8009.0 M08a ID 39361 96942 96052 (AR=OE, BT=K) CW 8-1-2004 Thu 2200 (MS)
8009.0 M08a ID 54002 21653 59573 CW 14-1-2004 Wed 2300 (MS)
8009.0 M08a i/p CW 14-1-2004 Wed 2306 (CILL)
8009.0 M08a ID 54003 21654 50574 (QRM very heavy, hard to copy_ CW 15-1-2004 Thu 2200 (MS)
8009.0 M08a ID 54005 05301 18341 (rpt of 2200z on 7519m) CW 19-1-2004 Mon 2300 (MS)
8009.0 M08a ID 78922 57913 17443 (rpt of 2200z on 7519m) CW 26-1-2004 Mon 2300 (MS)
8009.0 M08a M8a, strong/readable, ID is ????? ???? 27442 USB 26-1-2004 Mon 2300 (CA2)
8009.0 M08a M8a, strong/readable, ID is 78924 57914 17445, rpt of 2200z on 7519 USB 28-1-2004 Wed 2300 (CA2)
8010.0 V02a YL/SS, Crystal Clear AM 2-1-2004 Fri 0600 (GS)
8088.0 E11 E11, fair/readable on receiver in Sweden, ID is 183 USB 20-1-2004 Tue 1300 (CA2)
8096.0 M08a ID 97935 10733 37403 CW 25-1-2004 Sun 0700 (MS)
8097.0 V02a (transmitter problems. heavy crackling and sporadic message numbers) (YL/SS) USB 1-1-2004 Thu 0500 (MS)
8097.0 V02a V2a, fair/readable S9+5, into message USB 1-1-2004 Thu 0500 (CA2)
8097.0 V02a YL/SS Clear, No "Final". Carrier remained open. AM 1-1-2004 Thu 0535 (GS)
8097.0 V02a YL/SS AM 1-1-2004 Thu 0600 (GS)
8097.0 V02a V2a, strong/readable S9+5, into message USB 1-1-2004 Thu 0600 (CA2)
8097.0 V02a V2a, fair/readable, into message USB 2-1-2004 Fri 2000
8097.0 V02a YL/SS, Clear Reception....as if someone in New York was the recipient(Hmmmm)!!!! AM 3-1-2004 Sat 0600 (GS)
8103 E07 913:0 AM 7-1-2004 Wed 0630 (HFD)
8103 M22 4XZ. Israeli navy Haifa. VVV marker CW 6-1-2004 Tue 2149 (AB)
8133 M08a cut numbers CW 20-1-2004 2314 (RP3)
8135.0 M08a ID 59422 69623 05353 (AR=OE, BT=K) (rpt of 2200z on 7526m) CW 6-1-2004 Tue 2300 (MS)
8135.0 M08a ID 39361 96942 96052 (rpt of 2200z on 8009m) (AR=OE, BT=K) CW 8-1-2004 Thu 2300 (MS)
8135.0 M08a ID 39362 96943 97453 (rpt of 2200z on 7519m) CW 9-1-2004 Fri 2300 (MS)
8135.0 M08a ID 54003 21654 50574 (rpt of 2200z on 8009m) (Note rare use of #4 in last two groups) CW 15-1-2004 Thu

8135.0 M08a ID 54004 21655 59575 (rpt of 2200z on 7519m) CW
16-1-2004 Fri 2300 (MS)
8135.0 M08a ID 78921 57912 17442 (rpt of 2200z on 7519m) CW
23-1-2004 Fri 2300 (MS)
8135.0 M08a i/p; _____ WIMAN _____ CW 23-1-2004 Fri 2311 (BM)
8135.0 M08a ID 78923 57914 17444 (rpt of 2200z on 7526m) CW
27-1-2004 Tue 2300 (MS)
8135.0 M08a M8a, strong/readable, into message USB 27-1-2004 Tue
2300 (CA2)
8135.0 M08a M8a, strong/readable, ID is ????? 32151 26221 USB
30-1-2004 Fri 2300 (CA2)
8136.0 M08a ID 26813 75593 85653 CW 10-1-2004 Sat 1100 (MS)
8136.0 M08a vry strong sig MCW 11-1-2004 Sun 1017 (TN)
8136.0 M08a ID 16921 57341 98492 (rpt of 1000z on 9323m) CW
17-1-2004 Sat 1100 (MS)
8136.0 M08a ID ----- 30432 67542 CW 24-1-2004 Sat 1100 (MS)
8136.0 M08a ID 40313 99213 67543 CW 25-1-2004 Sun 1000 (MS)
8136.0 M08a ID 90785 30434 29811 CW 31-1-2004 Sat 1100 (MS)
8136.0 V02a muffled and hum, almost unreadable, but strong signal
USB 11-1-2004 Sun 0924 (TN)
8136.0 V02a ID ----- 43844 ----- (in progress) YL/SS USB 25-1-2004
Sun 0900 (MS)
8186.0 M08a CUT #s [72476 94829 25701 68492 39974] CW 6-1-2004 Tue
0725 (TS2)
8186.0 M08a very strong sig CW 10-1-2004 Sat 0709 (TN)
8186.0 M08a ID 97934 12742 06112 CW 24-1-2004 Sat 0700 (MS)
8276.7 Unid sending "AL" CW 15-1-2004 0319 (RP3)
8313.0 XSL slot machine, much stronger than 8703 or 8588 USB
14-1-2004 Wed 1535 (TN)
8313.0 XSL slot machine, strong sig USB 21-1-2004 Wed 1045 (TN)
8495 MX Cluster beacon "C" CW 10-1-2004 1351 (FN)
8544 E11 182/00 AM 6-1-2004 Tue 0830 (HFD)
8588.0 XSL slot machine, wk and barely readable/also 8703 USB
5-1-2004 Mon 1330 (TN)
8588.0 XSL slot machine wk sig/ also 8703 USB 5-1-2004 Mon 1410
8588.0 XSL slot machine (not heard on 8703) USB 10-1-2004 Sat
1600 (TN)
8588.0 XSL slot machine, weak sig USB 14-1-2004 Wed 1535 (TN)
8588.0 XSL slot machine strong sig USB 21-1-2004 Wed 1045 (TN)
8602 M08a cut numbers CW 16-1-2004 0001 (RP3)
8703.0 XSL slot machine, weak sig USB 14-1-2004 Wed 1535 (TN)
8703.0 XSL slot machine, weak sig USB 21-1-2004 Wed 1045 (TN)
8805 E10 ip AM 2-1-2004 0204 (ML4)
9060 M08a cut numbers CW 15-1-2004 0408 (RP3)
9060 M08a cut numbers CW 16-1-2004 0515 (RP3)
9060.0 M08 USB 20-1-2004 Tue 0500 (DT2)
9060.0 M08a M8a, weak/readable sigs, into message USB 1-1-2004 Thu
0400 (CA2)

9061.0 M08a M8a, fair/readable, into message USB 2-1-2004 Fri 0500
 9062.0 M08 CW 2-1-2004 Fri 0500 (GS)
 9062.0 M08 C/W AM 18-1-2004 Sun 0500 (GS)
 9062.0 M08a CW 4-1-2004 Sun 0500 (GS)
 9062.0 M08a ID 69903 18761 24671 CW 18-1-2004 Sun 0500 (MS)
 9062.0 M08a M8a, weak/fairly readable, i/p USB 24-1-2004 Sat 0600
 9115.0 SS YL attention wk sig AM 6-1-2004 Tue 0010 (TN)
 9130 E10 ip AM 9-1-2004 2135 (ML4)
 9130.0 E10 YL - Phonetic Alphabet - detectable of an evening with
 much QRN AM 1-1-2004 Wed 2130 (FNA)
 9130.0 E10 Recieved as follows AM 1-1-2004 Wed 2200 (FNA)
 9130.0 E10 in progress USB 3-1-2004 Sat 2335 (GG)
 9130.0 E10 E10, weak/readable sigs, calling EZI USB 4-1-2004 Sun
 0130 (CA2)
 9130.0 E10 E10, weak/mostly readable sigs, calling EZI2, null
 message USB 4-1-2004 Sun 0200 (CA2)
 9130.0 E10 E10, weak/mostly unreadable sigs, calling JSR USB
 4-1-2004 Sun 0300 (CA2)
 9130.0 E10 E10, weak/mostly readable, calling EZI2, null message
 USB 4-1-2004 Sun 0330 (CA2)
 9130.0 E10 E10, weak/mostly unreadable, calling EZI2, null
 message USB 5-1-2004 Mon 0100 (CA2)
 9130.0 E10 E10, very weak/mostly unreadable, to weak to ID, EZI?
 USB 5-1-2004 Mon 2200 (CA2)
 9130.0 E10 E10, weak/mostly readable, calling EZI USB 5-1-2004
 Mon 2230 (CA2)
 9130.0 E10 E10, very weak/mostly unreadable, calling EZI USB
 5-1-2004 Mon 2330 (CA2)
 9130.0 E10 E10, fair/readable on receiver in Sweden, into message
 USB 19-1-2004 Mon 2200 (CA2)
 9130.0 E10 E10, fair/readable on receiver in Sweden, calling
 EZI2, null message USB 19-1-2004 Mon 2230 (CA2)
 9152.0 M08a ID 21373 55332 64131 CW 3-1-2004 Sat 1200 (MS)
 9152.0 M08a ID 24562 84751 43442 (rpt of 1100z on 4027m) CW
 10-1-2004 Sat 1200 (MS)
 9152.0 M08a ID 90781 84753 24671 CW 17-1-2004 Sat 1200 (MS)
 9152.0 M08a ID 90785 30434 29811 (rpt of 1100z on 8136m) CW
 31-1-2004 Sat 1200 (MS)
 9153 V02 5FGs AM 16-1-2004 0521 (RP3)
 9153.0 M08a ID 93643 64133 54752 (AR=OE, BT=K) CW 5-1-2004 Mon
 1000 (MS)
 9153.0 M08a (sked was off to a late start, using the AR=OE,BT=K
 format) CW 7-1-2004 Wed 1000 (MS)
 9153.0 M08a ID 20471 25193 53601 CW 14-1-2004 Wed 1000 (MS)
 9153.0 V02a attencion (too muffled to make out list) AM
 10-1-2004 Sat 0701 (TN)
 9153.0 V02a i/p AM 12-1-2004 Mon 0538 (BM)
 9153.0 V02a YL/SS, 1x1 USB 19-1-2004 Mon 0530 (GS)

9165 S17C 98036 AM 3-1-2004 Sat 1250 (HFD)
 9165 S17C 97039 AM 4-1-2004 Sun 1250 (HFD)
 9165 S17C 83034 AM 6-1-2004 Tue 1250 (HFD)
 9165 S17C 83034 AM 10-1-2004 Sat 1250 (HFD)
 9165 S17C 99036 AM 13-1-2004 Tue 1250 (HFD)
 9165 S17C 83033 AM 18-1-2004 Sun 1250 (HFD)
 9165 S17C 81038 AM 24-1-2004 Sat 1250 (HFD)
 9165 S17C 83032 AM 26-1-2004 Mon 1250 (HFD)
 9165 S17C 82042 AM 27-1-2004 Tue 1250 (HFD)
 9165 S17C 89026 AM 28-1-2004 Wed 1250 (HFD)
 9165 S17C 99036 AM 31-1-2004 Sat 1250 (HFD)
 9190 S06 516 (?) very weak AM 13-1-2004 Tue 1630 (HFD)
 9197.0 X06 Usual tone sequence, after the 6 tones nothing further
 heard USB 7-1-2004 Wed 1600 (JS3)
 9202.0 E10 E10, weak/mostly unreadable sigs, calling YHF USB
 4-1-2004 Sun 0200 (CA2)
 9202.0 E10 E10, weak/readable, calling YHF, then into 81 grp msg
 USB 5-1-2004 Mon 0200 (CA2)
 9238.0 M08a ID 16871 90602 92312 CW 14-1-2004 Wed 0900 (MS)
 9238.0 M08a ID 08625 46464 24672 CW 18-1-2004 Sun 1100 (MS)
 9238.0 M08a ID 40313 99213 67543 (rpt of 1000z on 8136m) CW
 25-1-2004 Sun 1100 (MS)
 9248 XP msg AM 13-1-2004 Tue 0700 (HFD)
 9249.0 XP XP, very weak/ mostly unheard USB 8-1-2004 Thu 0700
 9249.0 XP XP, strong/readable on receiver in Sweden, header is
 261 AM 20-1-2004 Tue 0700 (CA2)
 9251.0 E03 E3, fair/readable sigs, ID is 8?733 USB 2-1-2004 Fri
 2200 (CA2)
 9251.0 E03 E3, fair/readable, ID is 71294 USB 28-1-2004 Wed 2200
 9323.0 M08a ID 76803 37374 61202 (AR=OE, BT=K) CW 1-1-2004 Thu
 1000 (MS)
 9323.0 M08a (late start) ID ---- 01111 71073 (AR=OE, BT=K) CW
 8-1-2004 Thu 1000 (MS)
 9323.0 M08a ID 16921 57341 98492 CW 17-1-2004 Sat 1000 (MS)
 9323.0 M08a (in progress, missed callups) CW 24-1-2004 Sat 1000
 9323.0 M08a ID 02625 48231 26453 CW 31-1-2004 Sat 1000 (MS)
 9323.0 V02a V2a, fair/readable S8, into message USB 1-1-2004 Thu
 0400 (CA2)
 9324.0 V02a ID 71291 78186 70661 (YL/SS - expected rpt of 0300z on
 10445m M8a here) USB 1-1-2004 Thu 0400 (MS)
 9330.0 M08a M8a, strong/readable, into message USB 19-1-2004 Mon
 0400 (CA2)
 9330.0 M08a M8a, fair/readable, into message USB 26-1-2004 Mon
 0400 (CA2)
 9330.0 M08a M8a, weak/unreadable due to QRM, into message USB
 28-1-2004 Wed 0400 (CA2)
 9354.0 V02a muffled, hum on signal USB 11-1-2004 Sun 0832 (TN)
 9605.0 V02a Comment: in prog; Fair sig; Span YL 5fg; AM 21-1-2004

Wed 0720 (JL)

10046	M22	4XZ. Israeli navy Haifa. VVV marker CW 6-1-2004 Tue 2150 (AB)
10046	M22	4XZ CW 15-1-2004 2021 (DW)
10046.0	M22	weak almost unreadable CW 6-1-2004 Tue 0005 (TN)
10119.0	M08a	i/p; fighting with HAMS. V2a in bg. CW 20-1-2004 Tue 0105 (BM)
10125.0	M08	clean sig CW 21-1-2004 Wed 1105 (TN)
10125.0	M08a	ID 62683 25192 68682 (AR=OE, BT=K) CW 6-1-2004 Tue 0300 (MS)
10125.0	M08a	ID ----- 71072 ----- (AR=OE, BT=K) CW 7-1-2004 Wed 1100 (MS)
10126.0	M08a	ID 93643 64133 54752 (AR=OE, BT=K) (rpt of 1000z on 9153m) CW 5-1-2004 Mon 1100 (MS)
10126.0	M08a	ID 14071 51432 55472 (AR=OE, BT=K) CW 8-1-2004 Thu 0900 (MS)
10126.0	M08a	ID 20471 25193 53601 (rpt of 1000z on 9153m) CW 14-1-2004 Wed 1100 (MS)
10126.0	M08a	ID 16871 90605 92315 CW 17-1-2004 Sat 0900 (MS)
10126.0	M08a	ID 97783 69584 55944 CW 24-1-2004 Sat 0900 (MS)
10126.0	M08a	M8a, fair/readable, into message USB 27-1-2004 Tue 0300 (CA2)
10126.0	V02a	YL/SS, W but R, also had C/W from possibly M8a LSB 6-1-2004 Tue 0330 (GS)
10228.0	M08a	M8a, fair/readable, into message USB 2-1-2004 Fri 0400
10235.0	M08a	ID 69901 44503 43442 CW 11-1-2004 Sun 0400 (MS)
10235.0	M08a	M8a, fair/readable, into message USB 28-1-2004 Wed 0400 (CA2)
10236.0	M08a	(transmitter all garbled. signal unreadable) CW 4-1-2004 Sun 0800 (MS)
10236.0	M08a	ID 97784 69585 55945 CW 25-1-2004 Sun 0800 (MS)
10344.0	M08a	ID 10983 90731 05171 CW 1-1-2004 Thu 0300 (MS)
10344.0	M08a	M8a, fair/readable sigs, into message USB 1-1-2004 Thu 0300 (CA2)
10346.0	M08a	ID 76803 37374 61202 (AR=OE, BT=K) (rpt of 1000z on 9323m) CW 1-1-2004 Thu 1100 (MS)
10346.0	M08a	ID 48551 81881 04613 (AR=OE, BT=K) CW 6-1-2004 Tue 1100 (MS)
10346.0	M08a	ID 15893 01111 71073 (rpt of 1000z on 9323m) (AR=OE, BT=K) CW 8-1-2004 Thu 1100 (MS)
10346.0	M08a	ID 02625 48231 26453 (rpt of 1000z on 9323m) CW 31-1-2004 Sat 1100 (MS)
10426.0	E03	E3, strong/readable on receiver in Sweden, ID is 62862 USB 19-1-2004 Mon 2200 (CA2)
10444.0	M08a	M8a, strong/readable S9, into message USB 1-1-2004 Thu 0300 (CA2)
10445.0	M08a	ID 11272 ----- CW 1-1-2004 Thu 0300 (MS)
10445.0	V02a	(in progress) USB 5-1-2004 Mon 0300 (MS)

10446.0 M08a M8a, weak/mostly readable, into message USB 22-1-2004 Thu 0300 (CA2)
10446.0 M08a M8a, weak/fairly readable, into message USB 29-1-2004 Thu 0300 (CA2)
10446.0 V02a YL/SS, W but R AM 5-1-2004 Mon 0300 (GS)
10446.0 V02a 37881 61483 70643; QRM from PSK modem AM 12-1-2004 Mon 0300 (BM)
10446.0 V02a i/p AM 12-1-2004 Mon 0536 (BM)
10446.0 V02a V2a, strong/readable, into message AM 19-1-2004 Mon 0300 (CA2)
10446.0 V02a V2a, fair/readable, ID is 83313 51582 68152, rpt of 0200 on 12165 USB 26-1-2004 Mon 0300 (CA2)
10446.0 V02a V2a, fair/readable, ID is 25113 80204 31513 USB 28-1-2004 Wed 0300 (CA2)
10649 XP msg AM 13-1-2004 Tue 0720 (HFD)
10649.0 E10 E10, fair/readable on receiver in Sweden, into message AM 20-1-2004 Tue 0720 (CA2)
10649.0 XP XP, strong/readable on receiver in Sweden, header is 261 AM 20-1-2004 Tue 0720 (CA2)
10714.0 M08a ID 90733 18922 71821 (AR=OE, BT=K) CW 6-1-2004 Tue 0200 (MS)
10879 V07 814:0 AM 29-1-2004 Thu 0600 (HFD)
10879.0 V07 V7, fair/readable on receiver in Sweden, ID is 814 AM 20-1-2004 Tue 0600 (CA2)
11432.0 M08a ID 97934 12742 06112 (rpt of 0700z on 8186z) CW 24-1-2004 Sat 0800 (MS)
11545 E03 LP in progress USB 7-1-2004 Wed 2017 (AB)
11545 E03 LP id 85114 USB 21-1-2004 2003 (RP3)
11545.0 E03 E3, weak/readable, into message USB 5-1-2004 Mon 1700 (CA2)
11545.0 E03 vry weak sig USB 10-1-2004 Sat 1517 (TN)
11545.0 E03 72904 USB 10-1-2004 Sat 1605 (TN)
11545.0 E03 Weak and mostly unreadable USB 17-1-2004 Sat 2000 (JK)
11545.0 E03 Weak and mostly unreadable USB 19-1-2004 Mon 1600 (JK)
11545.0 E03 E3, fair/readable, ID is 47609 USB 31-1-2004 Sat 2100
11565.0 E10 E10, very weak/mostly unheard, calling EZI USB 5-1-2004 Mon 2230 (CA2)
11565.0 E10 EZI in tfc, 2 msgs, 2nd msg: 34 JXBK/13533 AM 18-1-2004 Sun 1700 (JS3)
11565.0 E10 E10, fair/readable on receiver in Sweden, into message USB 19-1-2004 Mon 2200 (CA2)
11565.0 M08a M8a, weak/readable sigs, into message USB 1-1-2004 Thu 0400 (CA2)
11565.0 M08a Faint AM 6-1-2004 Tue 0400 (GS)
11565.0 M08a (in progress) ----- 47093 32921 (rpt of 0300z on 4027m) (AR=OE, BT=K) CW 6-1-2004 Tue 0400 (MS)
11565.0 M08a In prog. USB 19-1-2004 Mon 1700 (JK)
11566.0 M08a WRMTA WRMTA WRMTA, strong sig as usual, off at 1736 CW

12-1-2004 Mon 1715 (TN)

11566.0 M08a i/p CW 19-1-2004 Mon 1712 (BM)

11566.0 V02a V2a, weak/fairly readable, i/p USB 30-1-2004 Fri 0300

11600.0 M08a *very* strong S9+40 signal, M8a?? CW 2-1-2004 Fri 1800 (TN)

11866.0 M08a freq correction for previous entry CW 2-1-2004 Fri

12119.0 M08a i/p CW 20-1-2004 Tue 0117 (BM)

12149 XP msg AM 13-1-2004 Tue 0740 (HFD)

12149.0 XP XP, strong/readable on receiver in Sweden, header is 261 AM 20-1-2004 Tue 0740 (CA2)

12165.0 V02a V2a, fair/readable, ID is 83313 51582 68152 USB 26-1-2004 Mon 0200 (CA2)

12179 V07 814:0 AM 29-1-2004 Thu 0620 (HFD)

12179.0 V07 V7, fair/readable on receiver in Sweden, ID is 814 AM 20-1-2004 Tue 0620 (CA2)

12180.0 V02a V2a, weak/readable, very late, into 1st message at 0215z USB 28-1-2004 Wed 0200 (CA2)

12215.0 V02a YL/SS USB 2-1-2004 Fri 0210 (GS)

12215.0 V02a V2a, fair/readable, into message, very weak V2a in the background USB 23-1-2004 Fri 0200 (CA2)

12215.0 V02a V2a, weak/fairly readable, i/p USB 27-1-2004 Tue 0200

12215.0 V02a V2a, fair/readable, i/p USB 30-1-2004 Fri 0200 (CA2)

12603.0 E03 moderate sig, also 14.487 USB 5-1-2004 Mon 1413 (TN)

12603.0 E03 E3, fair/readable, into message USB 5-1-2004 Mon 1900

12603.0 E03 63142; under SVO beacon USB 7-1-2004 Wed 1700 (TS2)

12603.0 E03 USB 11-1-2004 Sun 1610 (TN)

12983 M22 VVV de 4XZ CW 22-12-2003 0837 (TE2)

12984 M22 4XZ CW 6-1-2004 1454 (WP3)

13374.0 M08a USB 19-1-2004 Mon 1800 (JK)

13374.0 M08a M8a, strong/readable, into message USB 19-1-2004 Mon 1800 (CA2)

13374.5 M08a rdura and wrnma CW 12-1-2004 Mon 1804 (TN)

13375.0 E03 vry weak USB 10-1-2004 Sat 1525 (TN)

13375.0 E03 USB 11-1-2004 Sun 1610 (TN)

13375.0 E03 Lincolnshire Poacher: First group repeated about 10 times 18457. USB 17-1-2004 Sat 1500 (JW2)

13375.0 E03 E3, weak/readable, into message USB 19-1-2004 Mon 1500 (CA2)

13436.0 V02a i/p; note: does not appear to be harmonic. AM 20-1-2004 Tue 0121 (BM)

13436.0 V02a V2a, fair/readable, into message USB 27-1-2004 Tue 0100 (CA2)

13506.0 X06 A long transmission (almost 7-10 minutes) USB 10-1-2004 Sat 1300 (JS3)

13517.0 X06 Same tones as on 16117, after the signal the carrier went also off AM 24-1-2004 Sat 1406 (JS3)

13533.0 E10 EZI in tfc, 2 msgs, 2nd msg: 34 JXBK/11565 AM 18-1-2004 Sun 1700 (JS3)

14487.0 E03 E3, weak/readable, ID is 73507 USB 6-1-2004 Tue 1300
 14487.0 E03 63142 USB 7-1-2004 Wed 1700 (TS2)
 14487.0 E03 E3, fair/readable, ID is 73507 USB 9-1-2004 Fri 1300
 14487.0 E03 E3, fair/readable, into message USB 12-1-2004 Mon 1300
 (CA2)
 14487.0 E03 E3, weak/mostly unreadable, to weak to get ID USB
 13-1-2004 Tue 1300 (CA2)
 14487.0 E03 E3, weak/readable, ID is 47609 USB 16-1-2004 Fri 1300
 14487.0 E03 E3, weak/readable, on receiver in Sweden, ID is 18457
 USB 21-1-2004 Wed 1200 (CA2)
 14487.0 E03 E3, weak/readable, ID is 85117 USB 21-1-2004 Wed 1300
 (CA2)
 14487.0 E03 E3, weak/readable, ID is 47609 USB 28-1-2004 Wed 1300
 (CA2)
 14930 M16 8BY CW 19-1-2004 1742 (RP3)
 15000 E10 YHF2 AM 9-1-2004 0902 (ML4)
 15682.0 E03 wk/readable USB 5-1-2004 Mon 1540 (TN)
 15682.0 E03 i/p weak but mostly readable USB 13-1-2004 Tue 1604
 15682.0 E03 i/p very weak barely readable USB 15-1-2004 Thu 1337
 15682.0 E03 E3, fair/readable on receiver in Sweden, Id is 85117
 USB 20-1-2004 Tue 1300 (CA2)
 16025 X06 Mazielka calls 7-1-2004 1448 (PILE)
 16117 X06 Mazielka calls 7-1-2004 1443 (PILE)
 16117.0 X06 Usual tone sequence, after the signal carrier went
 off, nothing further heard AM 24-1-2004 Sat 1400 (JS3)
 17021.0 unid 5LG very weak, echo, stopped at 1348 CW 5-1-2004
 Mon 1340 (TN)
 17410.0 E10 EZI2 AM 14-1-2004 Wed 1530 (TN)
 17410.0 E10 EZI in tfc AM 18-1-2004 Sun 0900 (JS3)
 17410.0 E10 EZI2 AM 18-1-2004 Sun 0930 (JS3)
 17417.0 E03 E3, fair/readable, into message USB 1-1-2004 Thu 1500
 18002 M08 cut numbers CW 30-1-2004 1400 (RP3)
 18415 M16 weak, but stronger than 14.931 8BY sending VVV CW
 2-1-2004 Fri 1644 (TN)
 18415 M16 8BY CW 5-1-2004 1458 (WP3)
 19452.0 E03 E3, fair/readable, into message USB 1-1-2004 Thu 1500
 19715.0 M10 partially hidden under data signal, when data fades
 out, lots of echo on signal USB 5-1-2004 Mon 1421 (TN)
 20892.0 harmonic of 10466 M8a? (correction to previous entry)
 CW 2-1-2004 Fri 1700 (TN)
 20946 M16 moderately strong signal, lots of QSB 8BY sending VVV
 CW 2-1-2004 Fri 1644 (TN)

::: Contributors to the logs section

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